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C. W. Hargitt, professor of zoology, Syracuse University. Embryology of the coelenterates.

George T. Hargitt. Embryology of *Clava* and *Aurelia*.

J. S. Kingsley, professor of biology, Tufts College. Comparative anatomy of vertebrates.

Frederic S. Lee, professor of physiology, Columbia University, and Max Morse, instructor in natural history, College of the City of New York. The phenomena of summation of stimuli in various invertebrates.

Charles S. Mead, instructor in zoology, Northwestern University. Structure of Verrill's "*Dinophilus simplex*."

T. H. Morgan, professor of zoology, Columbia University. The effects of centrifuging the eggs of *Cerebratulus*.

H. V. Neal, professor of biology, Knox College. The histogenesis of the eye muscle nerves in *Acanthias*.

Harley J. Van Cleave, graduate student in the University of Illinois. The cell lineage of *Cerebratulus*.

Leonard W. Williams, instructor in comparative anatomy, Harvard Medical School. The anatomy of *Myxine*.

During the summer seminars were held weekly, with extra meetings several times. At these times members of the laboratory and visitors presented the results of their recent work or made statements of the condition and progress of their special fields. Among these talks were the following:

Frank S. Collins: "Certain Problems in the Geographical Distribution of the Marine Algae."

Ulric Dahlgren: "The Development of the Electric Organs in the African Genus *Gymnotus*."

Bashford Dean: "The Embryology of the Lower Fishes and its Bearing on the Validity of the Liogenetic Law."

Herbert S. Jennings: "Recent Experiments on the Causes and Meanings of Conjugation in *Paramecium*."

J. S. Kingsley: "Recent Evidence Bearing on the Origin of Mammals."

F. D. Lambert: "The Life History of an Undescribed Genus of Chlamydomonads."

Frederic S. Lee: "The Phenomena and Causes of Fatigue."

F. B. Loomis: "Fossil Hunting in Sioux County Nebraska."

C. S. Mead: "The Chondrocranium of the Pig."

Charles S. Minot: "Recent Researches on the Morphology of the Blood."

T. H. Morgan: "Heredity of Hair Color in White Mice."

Max Morse: "Rhythmic Pulsations in the Umbrella of *Aurelia* and *Cyanea*. The Determination of Sex."

Leonard W. Williams: "The Primitive Segmentation of the Mesoderm and the Origin of the Sclerotomes in the Chick."

Frederick A. Woods: "The Evidence Bearing on the Question of Modifications as the Results of External Conditions."

#### HONORARY DOCTORATES CONFERRED BY HARVARD UNIVERSITY

ON the occasion of the inauguration of Dr. A. Lawrence Lowell as president of Harvard University, honorary degrees were conferred on thirty delegates. Those on whom the degree of doctor of science were conferred and the characterizations of President Lowell were as follows:

WILLIAM NAPIER SHAW, eminent in the new science of meteorology; welcome delegate from John Harvard's college, and from the ancient university whose sons bore the sacred fire of learning to a new England.

JOHN CHRISTOPHER WILLIS, also a delegate from the University of Cambridge; an eminent botanist, remarkable for his knowledge of tropical vegetation; director of the Royal Garden in Ceylon; who has done a great work in improving the varieties useful to men.

JOHN HARVARD BILES, delegate from the University of Glasgow; professor and master of naval architecture on the Clyde, where fleets are built that carry the commerce of the world.

HECTOR FREDERICK ESTRUP JUNGERSEN, delegate from the University of Copenhagen; professor of zoology and director of the Zoological Museum; heir of an ancient and virile race, who has enriched modern science by his profound studies of reproduction and development in fishes.

GEORGE ALEXANDER GIBSON, delegate from the University of Edinburgh; physician and professor of medicine; a clear and prolific writer; investigator of the action of the heart; distinguished teacher in a school long famous, where founders of our own medical school were trained more than a hundred years ago.

JACOBUS CORNELIUS KAPTEYN, director of the Observatory of Groningen; astronomer and organizer of scientific work; fit representative of a strong race, already glorious in arms, in art, in learning and in adventure.

WILLIAM ABBOTT HERDMAN, delegate from the University of Liverpool; a great authority on marine biology, who has dredged the floor of the ocean, and learned the secrets of the oyster and the pearl.

WILLIAM BERRYMAN SCOTT, a delegate from Princeton University; a persistent and thorough explorer of early mammal forms, he has helped to draw aside the veil that shrouds the mystery of life upon our planet.

ARTHUR AMOS NOYES, chemist of renown; a leader of research in physical chemistry. As professor at the Massachusetts Institute of Technology, and recently its head, our neighbor, our fellow-laborer, and our friend.

EDWARD BRADFORD TITCHENER, a delegate from Cornell; thorough and exact in methods of work in a new and rich field, his researches in experimental psychology have enlarged the bounds of human knowledge.

ELIHU THOMSON, delegate from the American Academy of Arts and Sciences; prolific in research and invention; a magician who by the witchcraft of science has subdued electricity to the service of man.

The degree of doctor of law was conferred on President Remsen with the following words:

IRA REMSEN, president of Johns Hopkins University; eminent for his researches in chemistry; a public-spirited citizen; and worthy to lead the university that first taught our country the higher training of scholars.

#### SCIENTIFIC NOTES AND NEWS

PROFESSOR GEORG LUNGE, the eminent chemist of Zurich, was presented on September 19 with a gold medal bearing his portrait and the sum of 40,000 francs to celebrate his seventieth birthday and the jubilee of his doctorate. Chemists were present from many countries and addresses were delivered by a number of delegates. Professor Lunge in his reply announced his intention of giving the money to the Polytechnic Institute for the aid of students of chemistry.

WE learn from *Nature* that in view of the retirement of Professor J. Cleland, F.R.S., from the chair of anatomy, and of Professor Jack from the chair of mathematics, at the end of the present month, there has been set

on foot, on the initiative of the business committee of the general council of the University of Glasgow, a movement for making appropriate recognition of their long and distinguished services. The form of recognition will, to a large extent, depend on the amounts subscribed, but it is thought that it might fitly include the provision of some fund for the advancement of anatomical and anthropological science in the case of Professor Cleland, and of mathematical science in the case of Professor Jack, and the presentation to the university of portraits or busts by an eminent artist.

DR. J. F. ANDERSON has been appointed director of the Hygienic Laboratory, Washington, D. C., to succeed Dr. M. J. Rosenau, who retires from the Public Health Service to accept a professorship of preventive medicine and hygiene at Harvard University. Dr. Anderson entered the Public Health Service in 1898 and for the past seven years has been assistant director of the laboratory. He has carried on his work on the standardization of diphtheria and tetanus antitoxins, market milks for tubercle bacilli and immunity and anaphylaxis. He is a graduate of the University of Virginia.

DR. KARL SCHWARZSCHILD, professor of astronomy at Göttingen, has been appointed director of the Astrophysical Observatory at Potsdam.

DR. O. L. ZUR STRASSEN, associate professor of zoology at Leipzig, has been appointed director of the Museum of the Senckenberg Natural History Society at Frankfort.

TEMPORARY INDUSTRIAL FELLOWSHIP, No. 7, at the University of Kansas, concerning the relation of the optical properties of glass to its chemical constitution, has been awarded to E. Ward Tillotson, Ph.D., of Yale. Dr. Tillotson, while at Yale, held both the Loomis and the Silliman fellowships in chemistry.

WM. A. WITHERS, professor of chemistry in the North Carolina College of Agriculture and Mechanic Arts and chemist of the Experiment Station, was elected president of the Association of Official Agricultural Chemists at its